PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORTON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agént's filè reference R-35	FOR FURTHER ACTIO	ON ·	See Form PCT/IPEA/416			
International application No.	International filing date (da	y/month/year)	Priority date (day/month/y	ear)		
PCT/JP03 /16921	26.12.	2003	27.12.2	2002		
International Patent Classification (IPC) of Int.Cl 7 C22F 1/04, F28I		i IPC				
Applicant SHOWA DENKO	K.K.					
This report is the international part Authority under Article 35 and to 2. This REPORT consists of a total 3. This report is also accompanied a a total of	ransmitted to the applicant of 3 sheets, in by ANNEXES, comprising	according to Article cluding this cover s	36.	nary Bxamining		
sheets of the de and/or sheets of Administrative sheets which s beyond the dis Supplemental b. a total of (indicate type containing a sequence	escription, claims and/or dra containing rectifications aut c Instructions). upersede earlier sheets, but closure in the international Box. e and number of electronic c listing and/or tables relat	which this Authoriapplication as filed carrier(s)	been amended and are the bathority (see Rule 70.16 and Softy considers contain an amer, as indicated in item 4 of Bouter readable form only, as the Administrative Instruction	adment that goes x No. I and the indicated in the		
4. This report contains indications						
Box No. I Basis of the	ne report					
Box No. II Priority						
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
Box No. IV Lack of unity of invention Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;						
citations a	nd explanations supporting	such statement				
1 -						
	Box No. VII Certain defects in the international application					
Box No. VIII Certain of	oservations on the internation	onal application	•			
Date of submission of the demand		Date of completion of this report				
	31.05.2004		25.11.2004			
Name and mailing address of the IPBA/	•	Authorized office		4K 9269		
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP 03

/16921

Box No. I	Basis of the report
	regard to the language, this report is based on the international application in the language in which it was filed, unless wise indicated under this item.
	This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:
	international search (under Rules 12.3 and 23.1(b))
	publication of the international application (under Rule 12.4)
•	international preliminary examination (under Rules 55.2 and/or 55.3)
	the state of the s
2. With	regard to the elements of the international application, this report is based on (replacement sheets which have been the the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed"
	re not annexed to this report):
	the international application as originally filed/furnished
Ш	the description: pages as originally filed/furnished
	pagesas originally incortains lead pages* received by this Authority on
	pages* received by this Authority on
	the claims: pages as originally filed/furnished
-	pages* as amended (together with any statement) under Article 19
	pages* received by this Authority on
	pages* received by this Authority on
	the drawings:
	pages as originally filed/furnished
	pages* received by this Authority on
	pages* received by this Authority on
	a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3. 🗆	The amendments have resulted in the cancellation of:
	the description, pages
	the claims, Nos.
	the drawings, sheets/figs
	the sequence listing (specify):
	any table(s) related to sequence listing (specify):
4.	This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
	the description, pages
	the claims, Nos.
	the drawings, sheets/figs
	the sequence listing (specify):
1.	any table(s) related to sequence listing (specify):
* If iter	m 4 applies, some or all of those sheets may be marked "superseded."
1	·

International application No. PCT/JP03 / 16921

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
Statement	•				
Novelty (N)	Claims	1-14	YE.		
MACETA (14)	Claims		NO		
Inventive step (IS)	Claims	5-14	YE		
mvonave step (22)	Claims	1-4	NC		
Industrial applicability (IA)	Claims	1-14	YE		
Monoton afficient of the	Claims		NO		

2. Citations and explanations (Rule 70.7)

The following documents have been considered for the purpose of this report.

D1:JP 2000-119784 A(SUMITOMO LIGHT METAL IND., CO.)2000.04.25

D2:JP 2002-348624 A(SUMITOMO LIGHT METAL IND., CO.)2002.12.04

D3:JP 11-172387 A(FURUKAWA ELECTRIC CO., LTD.)1999.06.29

D4:US 2001/0025676 A1(Kazuo TAGUCHI)2001.10.04

D5:JP 11-172388 A(FURUKAWA ELECTRIC CO., LTD.)1999.06.29

D6:Japan Light Metal Association, Handbook of Aluminum(5th ed.).1994, page 11,25,31,273-275

D7:JP 2001-342532 A(FURUKAWA ELECTRIC CO., LTD.)2001.12.14

The subject matter of claim1 does not appear to involve an inventive step in view of the D1 cited in the ISR.

The technical feature having an electrical conductivity of 30 to 43% IACS is not disclosed in D1. However, the person skilled in the art would easily establish the above feature by controlling amounts of solid solutions of Mn.

The subject matters of claim2-4 do not appear to involve an inventive step in view of the D1 cited in the ISR.

The amounts of inpurities in the claims2-4 is not special as inevitable impurites of the alloy.

The subject matters of claims5-10 are novel, since they are not disclosed in any of the prior art documents cited in the ISR.

In particular, the subject matter of the pipe blank heated at 550 to 600 degrees and thereafter cooled is not disclosed.

The subject matters of claims11-14 are novel, since they are not disclosed in any of the prior art documents cited in the ISR.

In particular, the use of the aluminum pipe claimed1-4 for an inlet pipe or an outlet pipe of a heat exchanger is not disclosed.